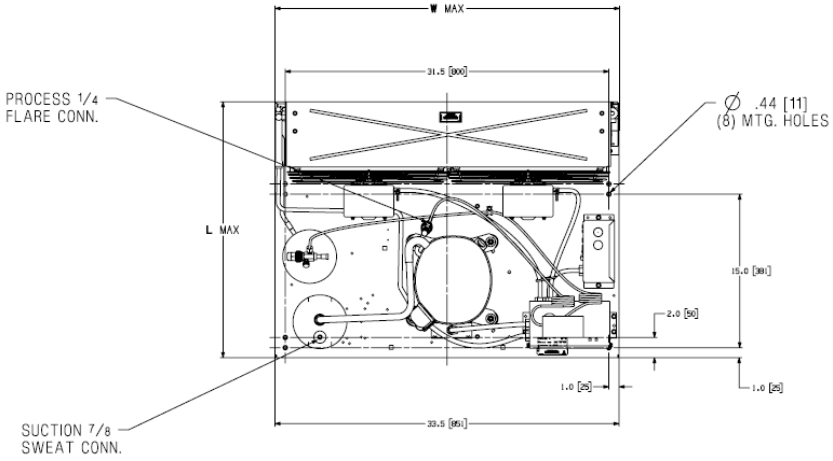
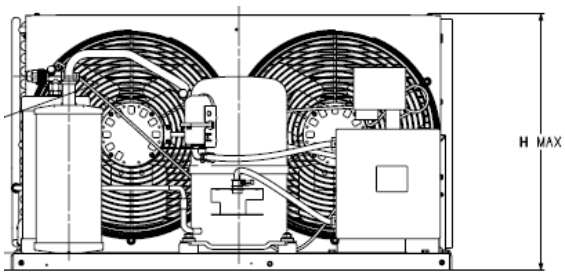
June 28, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWG4528CXNXM **BoM: 2C2159-1** **R407C** **2 1/3 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWG4528CXNXM	25.0	33.48	19.5	--	7/8" S	3/8" S	14.73 lbs	1750	38	195
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
5	23.5	10807	1939	88	9813	2002	98	8324	1978	109	5998	2310	120
10	27.9	12912	2051	89	11769	2114	99	10085	2109	110	7863	2371	121
15	32.7	15122	2168	91	13809	2233	101	11935	2247	111	9777	2450	122
20	37.9	17438	2289	93	15933	2358	102	13876	2390	113	11740	2546	123
25	43.6	19860	2416	95	18141	2491	104	15908	2540	114	13753	2660	125
30	49.6	22387	2547	97	20433	2631	106	18029	2696	116	15815	2791	126
35	56.1	25020	2682	99	22810	2777	108	20241	2859	118	17926	2940	128
40	63.2	27759	2822	101	25271	2931	110	22544	3027	120	20086	3106	130
45	70.7	30604	2967	104	27816	3091	113	24936	3202	123	22296	3290	132
50	78.8	33554	3116	106	30445	3258	116	27419	3382	125	24555	3491	134
55	87.9	36610	3271	109	33159	3433	119	29993	3569	128	26863	3710	137

60 Hz Performance

Return gas temp. 65°F, 5°F sub cooling

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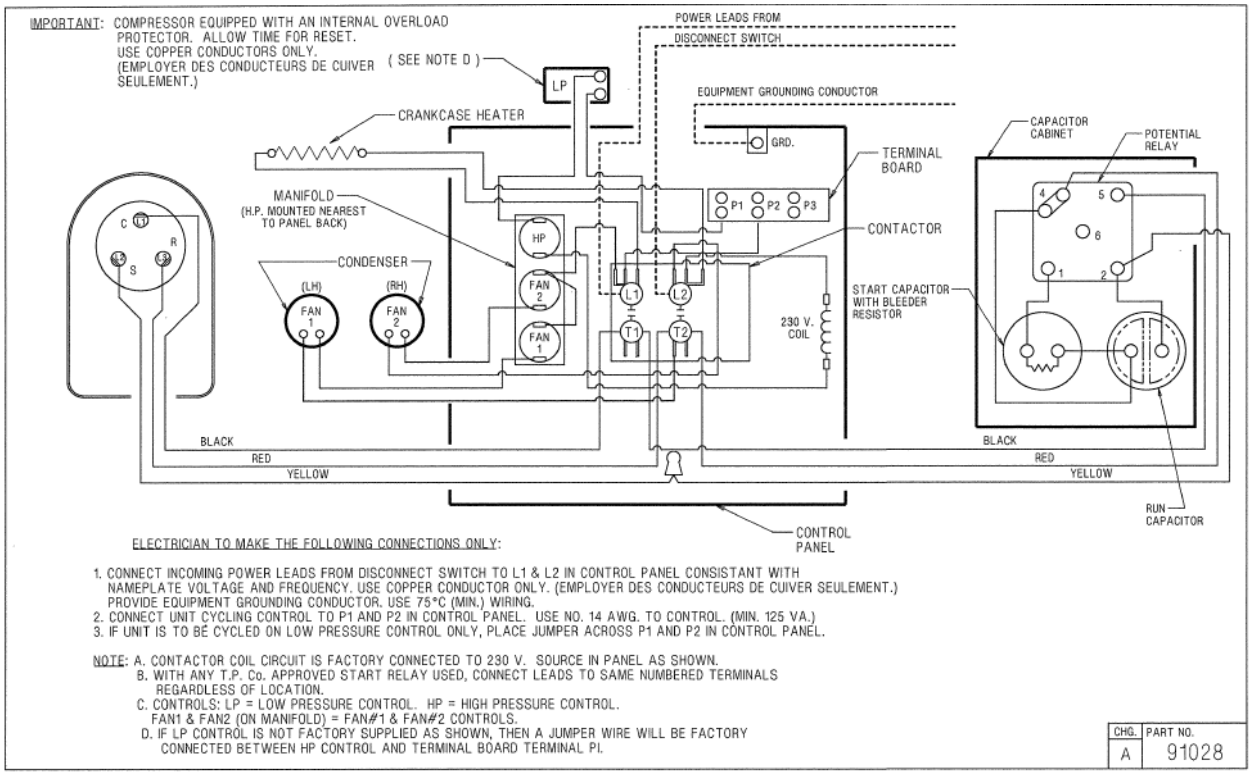
Specifications/ Parts:

Model	AWG4528CXNXM
Unit Bill of Material	2C2159-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	20° to 55°
Design Pressure Low	150
Design Pressure High	450
Voltage Range	180 to 254
Min. Circuit Ampacity	18.9
Max. Fuse Size (amps)	30
Compressor Model	AWG5526CXN
Comp. Bill of Material	AW707GT-099-P2
Compressor RLA/LRA	12.53 / 70
Overload	INTERNAL
Relay	820ARR3K57
Run Capacitor	85PR370F21
Run Capacitor Rating	45MFD 370V(M) VDE
Start Capacitor	85PS330D16
Start Capacitor Rating	130-156 MFD 330V VDE
Contactor	91017
Unit Drawing	DGU1918-1
Wiring Diagram	91028

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.70 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-1
Low Pressure Control	84026-2
Fan Switch 1	84096-1
Condenser	50858
Process Valve	31583-1
Fan Switch 2	84096-2
Receiver Tank	51081-1
Liquid Valve	31581-1
Liquid Filter *	N/A
Sight Glass *	N/A
Suction Valve	N/A
Rotolock Valve Gasket	N/A
Discharge Valve *	N/A
Suction Filter *	N/A
Accumulator	TK00042000
Crankcase Heater *	91022-1
Defrost Timer *	N/A
* = Outdoor Units Only	
Options for Outdoor Units	
Receiver Heater	N/A
Solenoid Valve	N/A

Electrical Wiring Diagram


IMPORTANT: COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
(SEE NOTE D)
LP
POWER LEADS FROM DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
GRD.
CRANKCASE HEATER
TERMINAL BOARD
CAPACITOR CABINET
POTENTIAL RELAY
MANIFOLD (H.P. MOUNTED NEAREST TO PANEL BACK)
P1 P2 P3
CONTACTOR
CONDENSER
(LH)
(RH)
FAN 1
FAN 2
HP
L1
L2
T1
T2
230 V. COIL
START CAPACITOR WITH BLEEDER RESISTOR
C
R
S
BLACK
RED
YELLOW
RUN CAPACITOR
CONTROL PANEL
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1 & L2 IN CONTROL PANEL CONSISTANT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WITH ANY T.P. Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
C. CONTROLS: LP = LOW PRESSURE CONTROL. HP = HIGH PRESSURE CONTROL. FAN1 & FAN2 (ON MANIFOLD) = FAN#1 & FAN#2 CONTROLS.
D. IF LP CONTROL IS NOT FACTORY SUPPLIED AS SHOWN, THEN A JUMPER WIRE WILL BE FACTORY CONNECTED BETWEEN HP CONTROL AND TERMINAL BOARD TERMINAL P1.
CHG. A
PART NO. 91028